



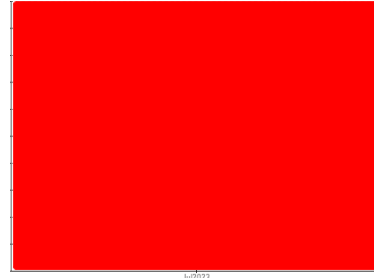
PROBLEM SUMMARY

Sample Rating Trend

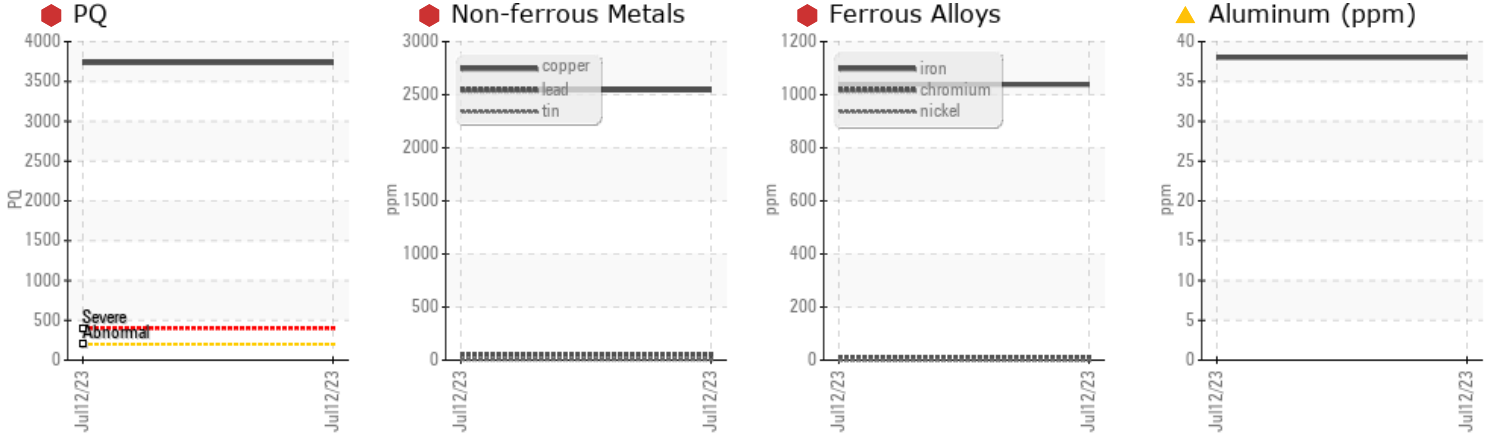
WEAR

Area
FRONTIER II
Machine Id
65WEA86984

Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- QTS)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. We advise that you inspect for the source(s) of wear.

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
PQ	ASTM D8184 >200 3735	---	---
Iron	ppm ASTM D5185m >250 1038	---	---
Lead	ppm ASTM D5185m >25 49	---	---
Copper	ppm ASTM D5185m >75 2543	---	---
Aluminum	ppm ASTM D5185m 38	---	---

Customer Id: NORDEX
Sample No.: NX05924617
Lab Number: 05924617
Test Package: GRS 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Monitor	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Change Fluid	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.
Resample	---	---	?	Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level.

HISTORICAL DIAGNOSIS



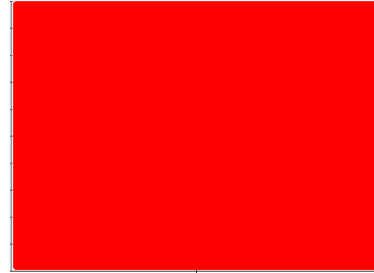
GREASE ANALYSIS

Sample Rating Trend

WEAR

Area
FRONTIER II
Machine Id
65WEA86984

Component
Grease
Fluid
KLUBER KLUBERPLEX BEM 41-141 (--- QTS)



DIAGNOSIS

Recommendation

Re-sample to verify the actual oil condition. Purge old grease if still abnormal and monitor the trend of iron level. We advise that you inspect for the source(s) of wear.

Wear

Bearing and/or bushing wear is indicated.

Grease Condition

The condition of the grease is acceptable for the time in service.

Contaminants

There is no indication of any contamination in the grease.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		NX05924617	---	---
Sample Date	Client Info		12 Jul 2023	---	---
Machine Age	hrs	Client Info	14635	---	---
Grease Age	hrs	Client Info	0	---	---
Grease Serviced	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>200	3735	---	---
Iron	ppm	ASTM D5185m	>250	1038	---
Chromium	ppm	ASTM D5185m	>10	6	---
Nickel	ppm	ASTM D5185m	>5	0	---
Cadmium	ppm	ASTM D5185m		<1	---
Titanium	ppm	ASTM D5185m		2	---
Vanadium	ppm	ASTM D5185m		1	---
Lead	ppm	ASTM D5185m	>25	49	---
Copper	ppm	ASTM D5185m	>75	2543	---
Tin	ppm	ASTM D5185m	>5	4	---
Silver	ppm	ASTM D5185m	>5	2	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		157	---
Magnesium	ppm	ASTM D5185m		0	---
Manganese	ppm	ASTM D5185m		12	---
Molybdenum	ppm	ASTM D5185m		3232	---
Phosphorus	ppm	ASTM D5185m		690	---
Zinc	ppm	ASTM D5185m		1610	---

THICKENER/SOAP

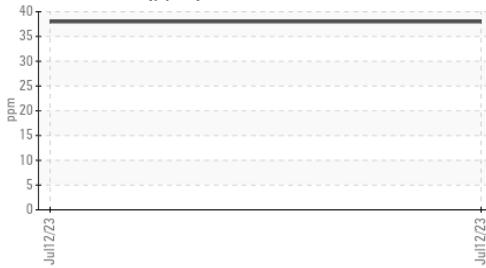
	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		38	---
Barium	ppm	ASTM D5185m		8	---
Calcium	ppm	ASTM D5185m		20	---
Sodium	ppm	ASTM D5185m		17	---
Lithium	ppm	ASTM D5185m		3504	---
Sulfur	ppm	ASTM D5185m		4571	---

CONTAMINANTS

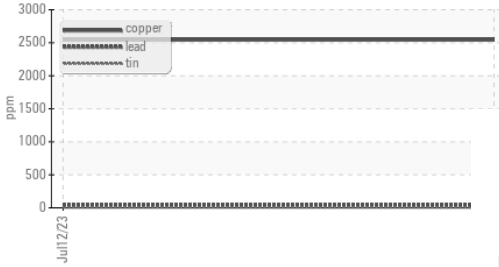
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	77	---
Potassium	ppm	ASTM D5185m		4	---

GREASE ANALYSIS

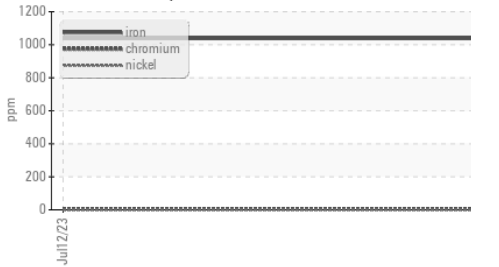
▲ Aluminum (ppm)



◆ Non-ferrous Metals



◆ Ferrous Alloys



▲ Aluminum (ppm)



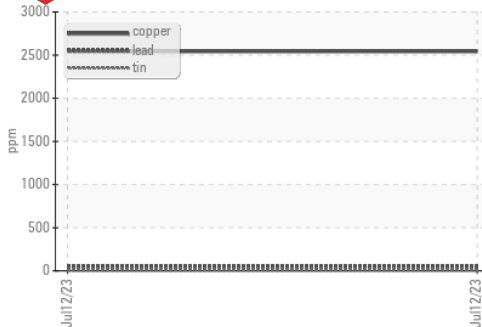
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS

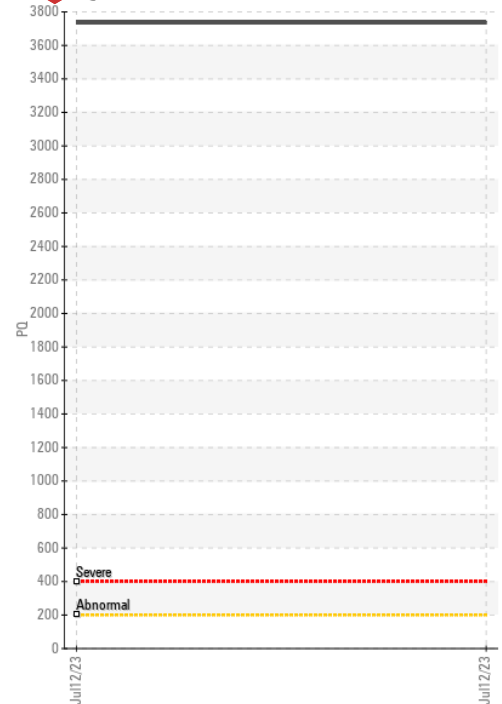
◆ Ferrous Alloys



◆ Non-ferrous Metals



◆ PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX05924617 **Received** : 14 Aug 2023
Lab Number : 05924617 **Diagnosed** : 22 Aug 2023
Unique Number : 10604564 **Diagnostician** : Doug Bogart
Test Package : GRS 1 (Additional Tests: KV40, SCREEN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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